

KODAK PANATOMIC-X FILM

IN 135 MAGAZINES

5060

FILM SPEED

ASA 32

Use this black-and-white film when you want prints with a very high degree of enlargement. It has extremely fine grain and very high sharpness.

Handling: Load and unload camera in subdued light. After last exposure and before opening camera, rewind 135 film into magazine.

DAYLIGHT PICTURES

Set exposure meter or automatic camera at ASA 32. If negatives are consistently too light, increase exposure by using a lower film-speed number; if too dark, reduce exposure by using a higher number.

If you don't have a meter or an automatic camera, use the exposures for the appropriate lighting conditions in the table below.

DAYLIGHT EXPOSURE TABLE FOR KODAK PANATOMIC-X FILM

Shutter Speed 1/125 Second		Shutter Speed 1/60 Second		
Bright or Hazy Sun on Light Sand or Snow	Bright or Hazy Sun (Distinct Shadows)	Cloudy Bright (No Shadows)	Heavy Overcast	Open Shade†
f/11	f/8*	f/4	f/4	f/4

*f/4 at 1/125 second for backlit subjects.

†Subject shaded from the sun but lighted by a large area of sky.

FLASH PICTURES

Blue Flash: Determine f-number for average subjects by dividing guide number for reflector and flashbulb by distance in feet from flash to subject. If negatives are consistently too light, increase exposure by using lower guide number; if too dark, reduce exposure by using higher guide number.

GUIDE NUMBERS FOR BLUE FLASH

Reflector	Flashbulb	Shutter Speed				
		X Sync		M Synchronization		
		1/30	1/30	1/60	1/125	1/250
	Flashcube	50	34	34	28	22
	HI-POWER FlashCube	70	50	45	40	32
	AG-1B	36	26	26	22	18
	AG-1B	50	36	36	30	26
	M2B	50	NR	NR	NR	NR
	AG-1B	75	50	50	45	36
	M2B	70	NR	NR	NR	NR
	M3B, 5B, 25B	75	65	65	55	42
	6B,† 26B†	NR	70	50	34	24
	M3B, 5B, 25B	100	90	90	75	60
	6B,† 26B†	NR	100	75	50	34

*Polished bowl. †Bulbs for focal-plane shutter. NR—Not Recommended.

Warning: Bulbs may shatter when flashed; use a flashguard over your reflector. Do not use flash in an explosive atmosphere. See flashbulb manufacturer's instructions.

ELECTRONIC FLASH

Use this table with electronic flash units rated in beam candlepower seconds (BCPS). To determine f-number, divide guide number for flash unit by distance in feet from flash to subject. If exposure is unsatisfactory, change guide number as described under **Blue Flashbulbs**.

Output of Unit BCPS	350	500	700	1000	1400	2000	2800	4000	5600	8000
Guide Number	24	28	32	40	50	55	65	80	95	110

FILTERS

When you use a filter, increase the normal exposure by the factor indicated in the table. However, if your camera has a built-in exposure meter that makes the reading through a filter used over the lens, see your camera manual for instructions on exposure with filters.

Filter	No. 6	No. 8	No. 11	No. 15	No. 25	No. 47	No. 58	Polarizing Screen
Daylight Tungsten	1.5 1.5	2* 1.5	4 4*	2.5 1.5	8 5	8 16	6 6	2.5 2.5

*For correct gray-tone rendering of colored objects.

PROCESSING

Take the exposed film to your photo dealer for developing and printing. If you wish, you can process the film yourself, using KODAK Chemicals or their equivalent. Follow these instructions for KODAK Chemicals:

Handle in Total Darkness. However, when development is half completed, you can use a safelight at 4 feet for a few seconds. Equip the safelight with a KODAK Safelight Filter, No. 3 (dark green), or equivalent and a 15-watt bulb.

To open the 135 magazine, hold the magazine with the long end of the spool down and use a lid lifter or hook-type bottle opener to remove the upper end cap from the magazine.

Develop for the times suggested below. If your negatives are consistently too low in contrast, increase development time; if too high in contrast, decrease development time. The most widely used times and temperatures are in heavy type.

KODAK Developers (packaged)	DEVELOPING TIMES IN MINUTES*									
	SMALL TANK†—Agitation at 30-Second Intervals					LARGE TANK—Agitation at 1-Minute Intervals				
	65°F 18°C	68°F 20°C	70°F 21°C	72°F 22°C	75°F 24°C	65°F 18°C	68°F 20°C	70°F 21°C	72°F 22°C	75°F 24°C
D-76	6	5	4½	4¼	3¾	6½	5½	5	4¾	4
D-76 (1:1)	8	7	6½	6	5	9	7½	7	6½	5½
MICRODOL-X	8	7	6½	6	5	9	7½	7	6½	5½
MICRODOL-X (1:3)	—	—	11	10	8½	—	—	12	11	9½
POLYDOL	6½	5½	5	4½	3½	7	6	5½	5	4
HC-110 (Dilution B)	4¾	4¼	4	3¾	3¼	5½	4¾	4¼	4	3½

*Unsatisfactory uniformity may result with development times shorter than 5 minutes.

†Usually one-quart size or smaller.

Note: Do not use developers containing silver halide solvents.

Rinse in KODAK Indicator Stop Bath or KODAK Stop Bath SB-5 at 65 to 75°F (18 to 24°C), for 30 seconds with agitation. You can use a running-water rinse if an acid stop bath is not available.

Fix in KODAK Fixer or KODAK Fixing Bath F-5 for 2 to 4 minutes, or in KODAK Rapid Fixer or KODAFIX Solution for 1 to 2 minutes, at 65 to 75°F (18 to 24°C) with agitation.

Wash the film for 20 to 30 minutes in running water at 65 to 75°F (18 to 24°C). To minimize drying marks, treat in KODAK PHOTO-FLO Solution after washing, or wipe surfaces carefully with a KODAK Photo Chamois or a soft viscose sponge.

You can use KODAK Hypo Clearing Agent after fixing to reduce washing time and conserve water. First remove excess hypo by rinsing the film in water for 30 seconds. Then bathe the film in the KODAK Hypo Clearing Agent solution for 1 or 2 minutes with moderate agitation, and wash for 5 minutes, using a water flow sufficient to give at least one complete change of water in 5 minutes.

Note: Keep temperatures of rinse, fix, and wash close to developer temperature.

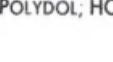
Dry in a dust-free place.

MORE INFORMATION: If you have questions about this film, write to Eastman Kodak Company, Department 841B, at the address below. For tips on taking good pictures, see the many Kodak books for sale by your photo dealer.

Read This Notice: This film will be replaced if defective in manufacture, labeling, or packaging. Except for such replacement, the sale or any subsequent handling of this film is without warranty or liability even though defect, damage, or loss is caused by negligence or other fault.

Consumer Markets Division

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